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ABSTRACT

The invention relates to a sound-insulating composite component and a method for its production. The composite component (38) is in particular destined for motor vehicles and comprises a heavy layer (6) and a sound-attenuation layer (17) that is connected with said heavy layer and is made of porous and/or textile material. The heavy layer is formed as a moulded part by extrusion-pressing a plasticized plastic compound, fed-in in the strand placement process, from the group of thermoplastic elastomers, comprises regions of different thickness and/or density and is welded to the sound attenuation layer (17) only in some parts, wherein the sound attenuation layer has a profile structure that is formed by thermal forming, and at least in some sections the circumference of the sound attenuation layer (17) reaches beyond the circumference of the heavy layer (6). The production method comprises the following steps:

- placing a certain volume of a heavy-layer material as a plasticized compound into an open cavity of a press comprising a lower die and an upper die;
- closing the press, wherein the plasticized compound is extrusion-pressed into the form of the heavy layer defined by the lower die and the upper die;
- opening the press;
- arranging the sound attenuation layer in the form of a web, a blank or an injection moulded part on the heavy layer; and
- partial welding together of the heavy layer (6) and the sound attenuation layer (17) by closing the press or a further press and by activating several

welding elements that are delimited in area and that are integrated in the press or in the further press.

The composite component obtained in this way is characterised by favourable recycling characteristics and relatively low production costs.

Fig. 6 is provided for the abstract.